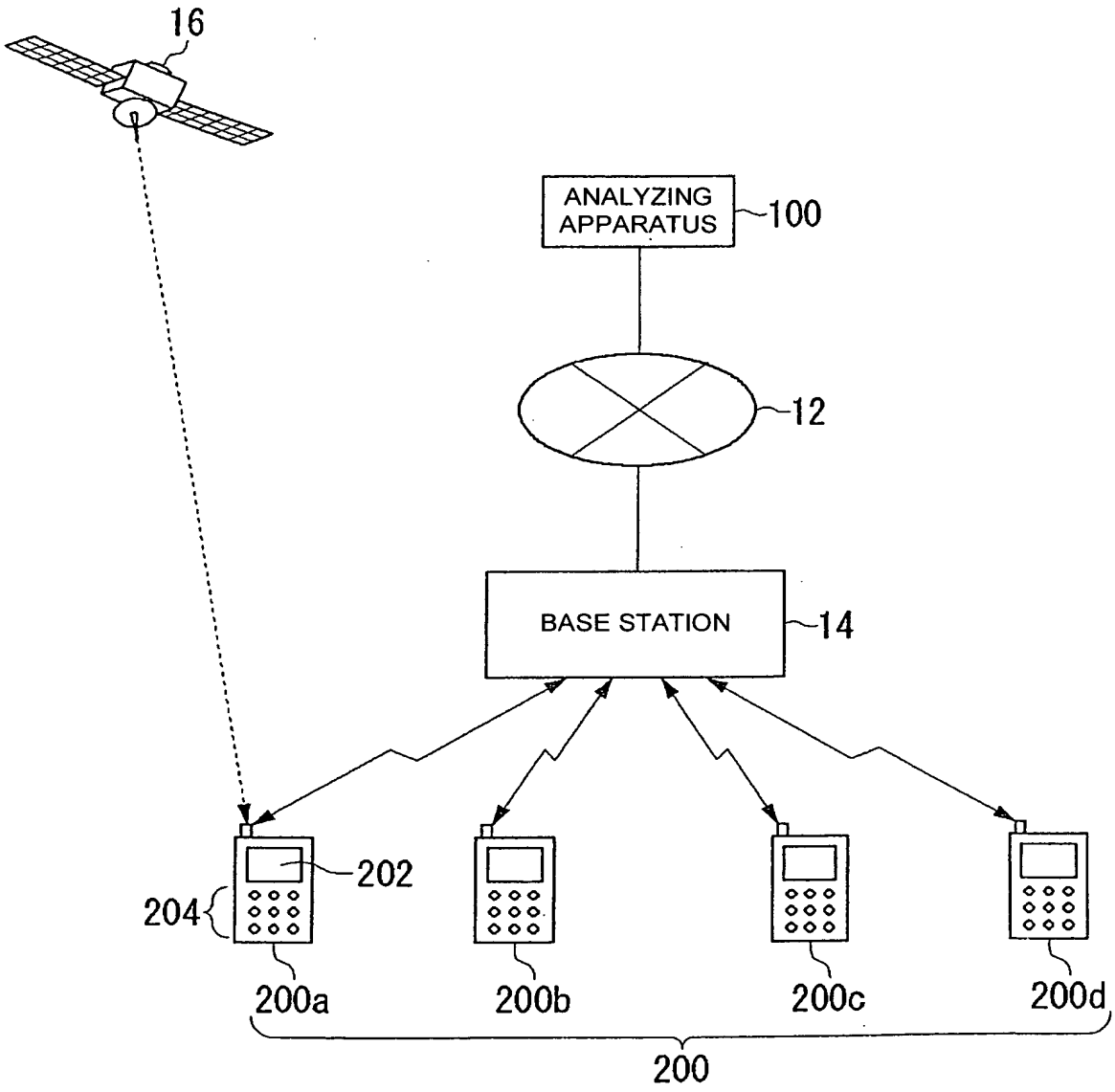
Fig.1


16
ANALYZING APPARATUS
100
12
BASE STATION
14
202
204
200a
200b
200c
200d
200

10

Fig.2

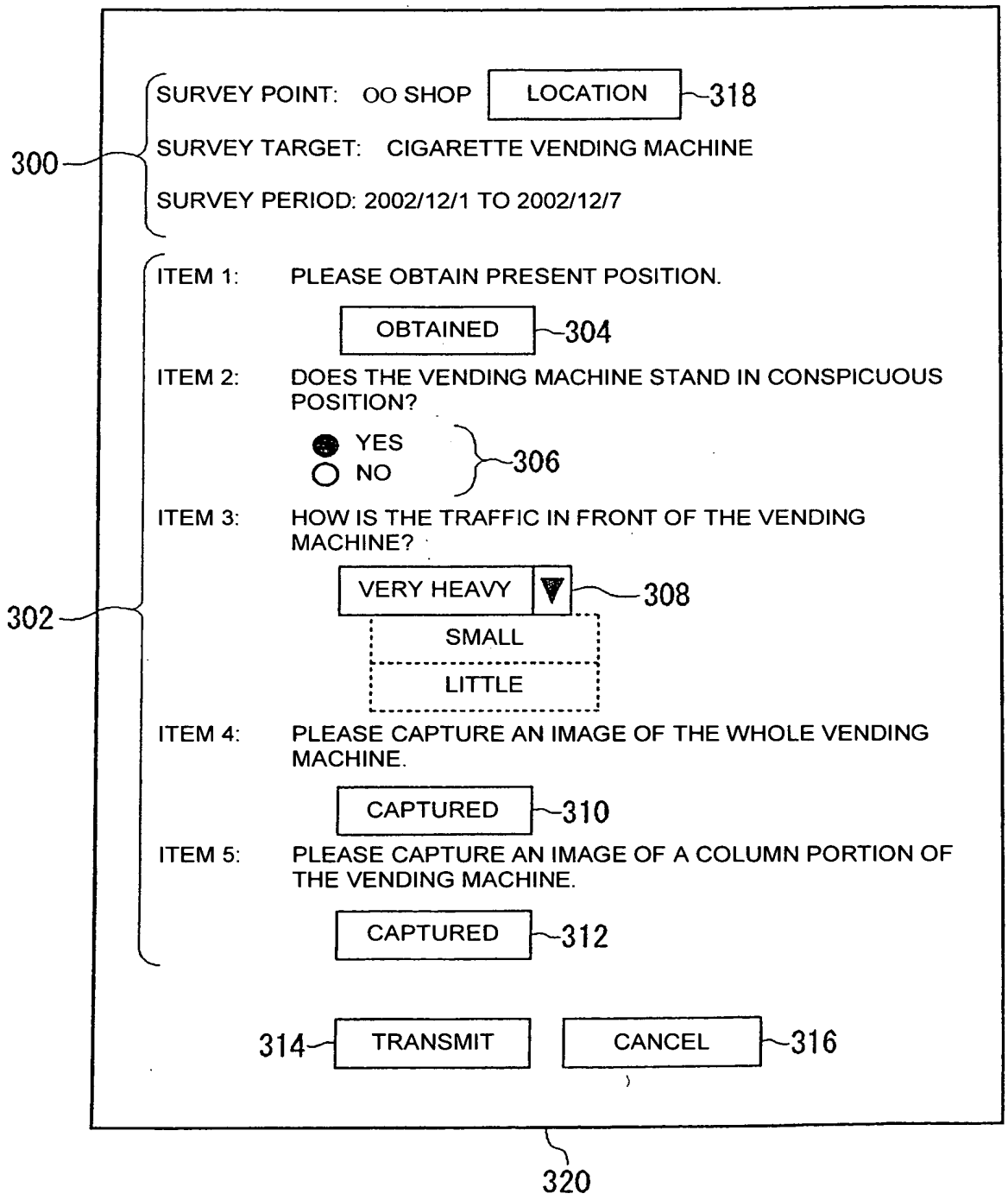

SURVEY POINT: OO SHOP
LOCATION
318
300
SURVEY TARGET: CIGARETTE VENDING MACHINE
SURVEY PERIOD: 2002/12/1 TO 2002/12/7
ITEM 1: PLEASE OBTAIN PRESENT POSITION.
OBTAINED
304
ITEM 2: DOES THE VENDING MACHINE STAND IN CONSPICUOUS POSITION?
YES
NO
306
ITEM 3: HOW IS THE TRAFFIC IN FRONT OF THE VENDING MACHINE?
302
VERY HEAVY
308
SMALL
LITTLE
ITEM 4: PLEASE CAPTURE AN IMAGE OF THE WHOLE VENDING MACHINE.
CAPTURED
310
ITEM 5: PLEASE CAPTURE AN IMAGE OF A COLUMN PORTION OF THE VENDING MACHINE.
CAPTURED
312
314
TRANSMIT
CANCEL
316
320

Fig.3

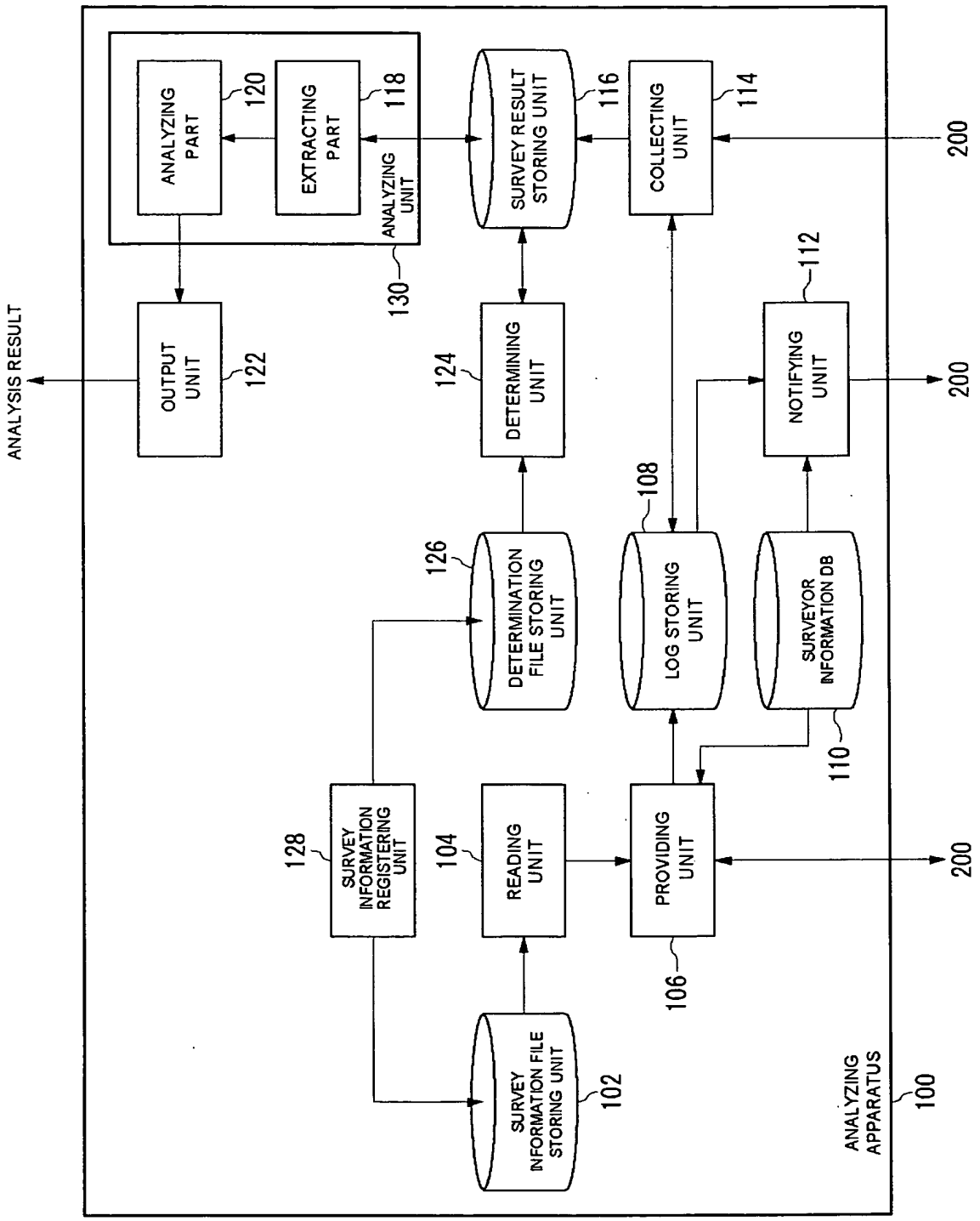

ANALYSIS RESULT
OUTPUT UNIT
122
ANALYZING PART
120
EXTRACTING PART
118
ANALYZING UNIT
130
SURVEY RESULT STORING UNIT
116
COLLECTING UNIT
114
200
DETERMINING UNIT
124
NOTIFYING UNIT
112
200
DETERMINATION FILE STORING UNIT
126
LOG STORING UNIT
108
SURVEYOR INFORMATION DB
110
SURVEY INFORMATION REGISTERING UNIT
128
READING UNIT
104
PROVIDING UNIT
106
200
SURVEY INFORMATION FILE STORING UNIT
102
ANALYZING APPARATUS
100

Fig.4

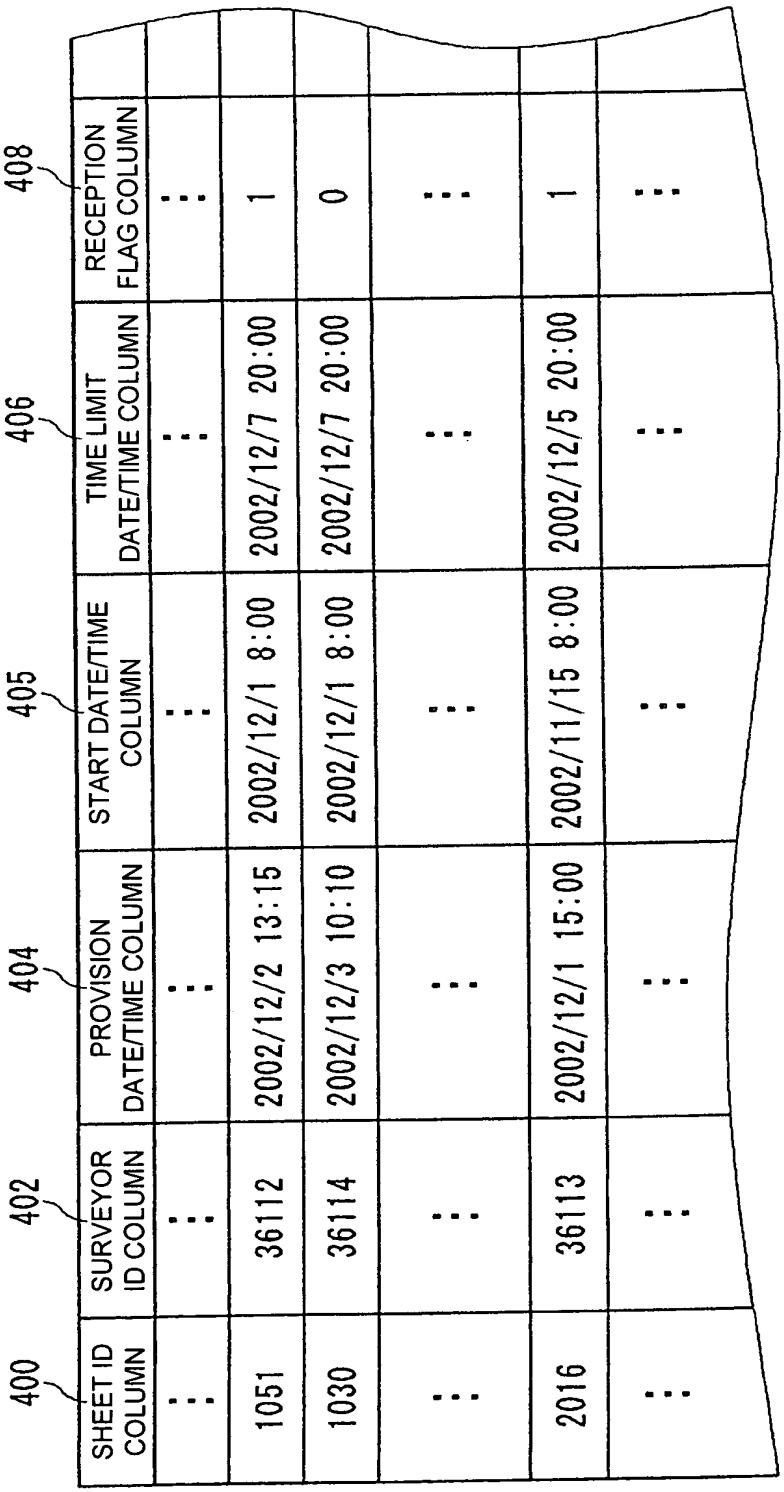

400
402
404
405
406
408
SHEET ID COLUMN
SURVEYOR ID COLUMN
PROVISION DATE/TIME COLUMN
START DATE/TIME COLUMN
TIME LIMIT DATE/TIME COLUMN
RECEPTION FLAG COLUMN
1051
36112
2002/12/2 13:15
2002/12/1 8:00
2002/12/7 20:00
1
1030
36114
2002/12/3 10:10
2002/12/1 8:00
2002/12/7 20:00
0
2016
36113
2002/12/1 15:00
2002/11/15 8:00
2002/12/5 20:00
1
108

Fig.5

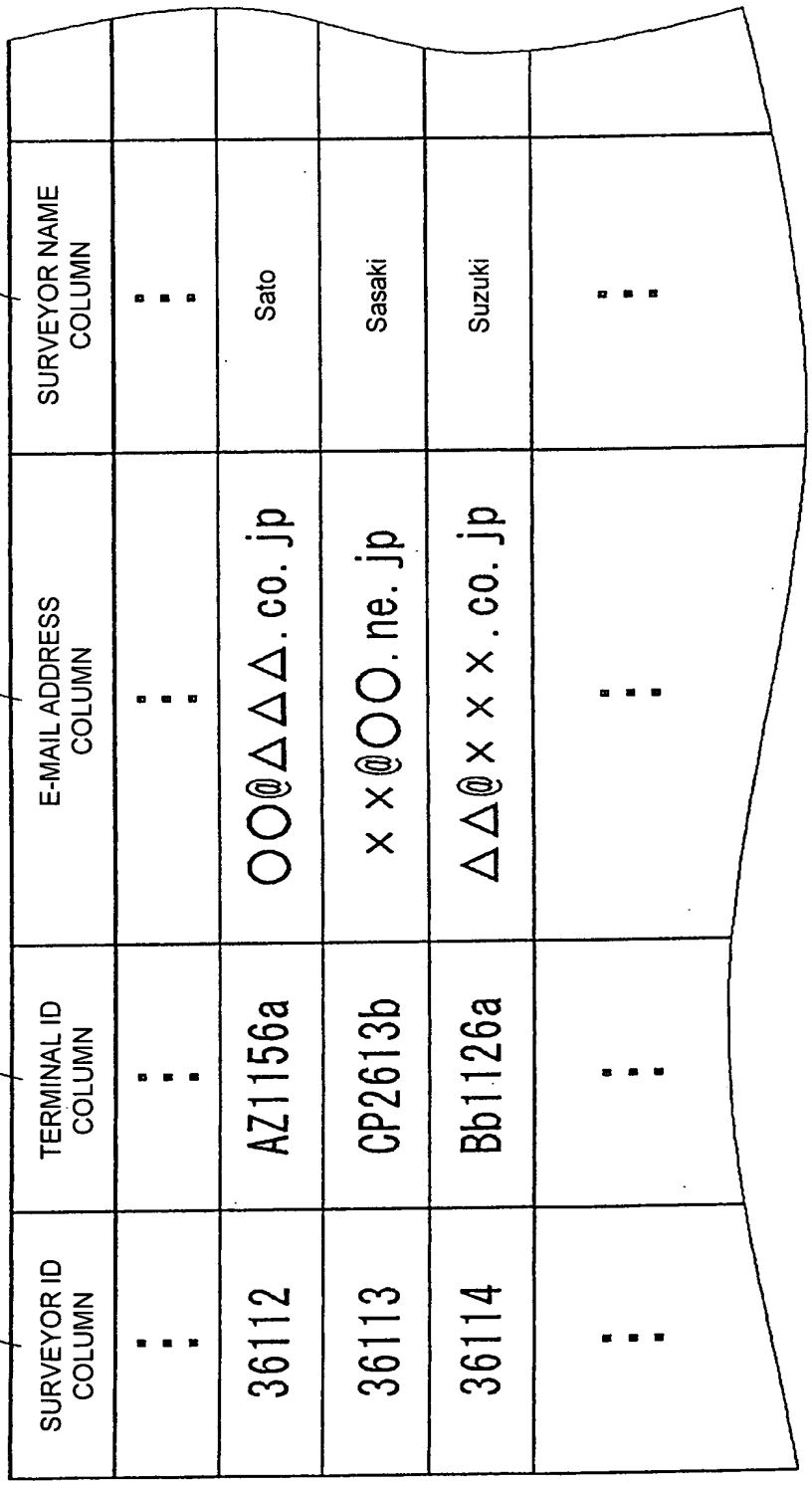

410
412
414
416
SURVEYOR ID COLUMN
TERMINAL ID COLUMN
E-MAIL ADDRESS COLUMN
SURVEYOR NAME COLUMN
36112
AZ1156a
○○@△△△.co.jp
Sato
36113
CP2613b
××@○○.ne.jp
Sasaki
36114
Bb1126a
△△@××××.co.jp
Suzuki
110

Fig.6

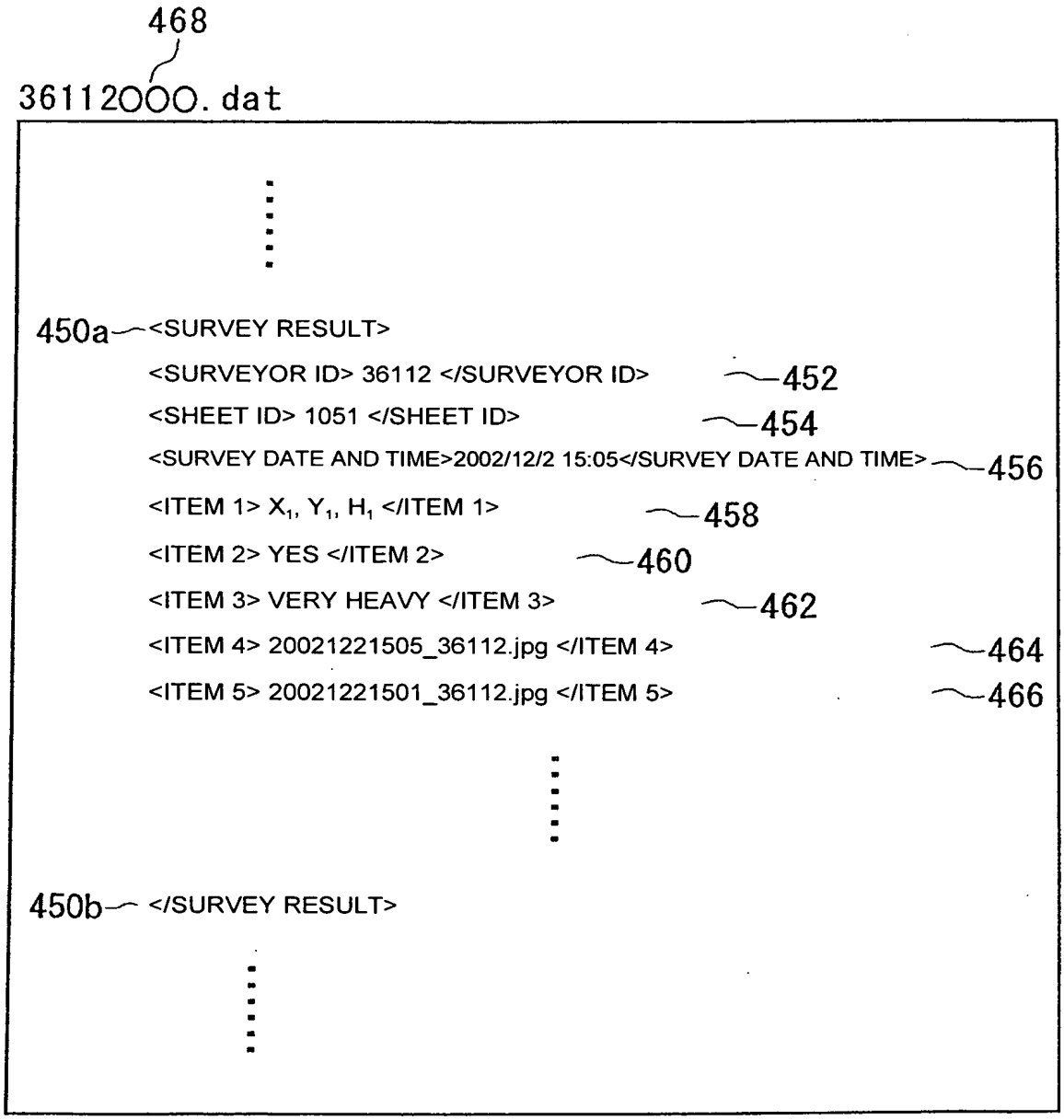

468
36112OOO.dat
450a
<SURVEY RESULT>
<SURVEYOR ID> 36112 </SURVEYOR ID>
452
<SHEET ID> 1051 </SHEET ID>
454
<SURVEY DATE AND TIME>2002/12/2 15:05</SURVEY DATE AND TIME>
456
<ITEM 1> X1, Y1, H1 </ITEM 1>
458
<ITEM 2> YES </ITEM 2>
460
<ITEM 3> VERY HEAVY </ITEM 3>
462
<ITEM 4> 20021221505_36112.jpg </ITEM 4>
464
<ITEM 5> 20021221501_36112.jpg </ITEM 5>
466
450b
</SURVEY RESULT>

Fig.7

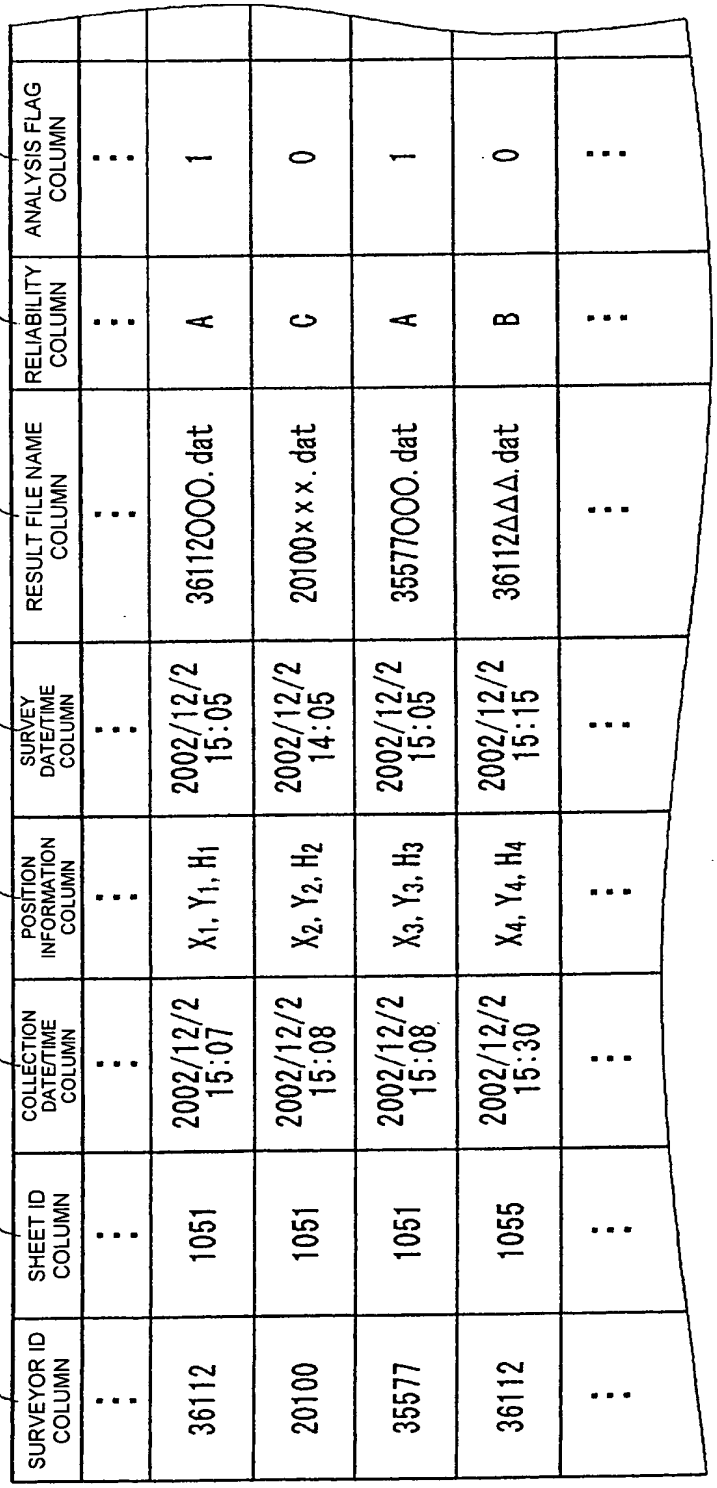

420
422
424
426
428
430
432
434
SURVEYOR ID COLUMN
SHEET ID COLUMN
COLLECTION DATE/TIME COLUMN
POSITION INFORMATION COLUMN
SURVEY DATE/TIME COLUMN
RESULT FILE NAME COLUMN
RELIABILITY COLUMN
ANALYSIS FLAG COLUMN
36112 1051 2002/12/2 15:07 X1, Y1, H1 2002/12/2 15:05 36112OOO.dat A 1
20100 1051 2002/12/2 15:08 X2, Y2, H2 2002/12/2 14:05 20100××.dat C 0
35577 1051 2002/12/2 15:08 X3, Y3, H3 2002/12/2 15:05 35577OOO.dat A 1
36112 1055 2002/12/2 15:30 X4, Y4, H4 2002/12/2 15:15 36112ΔΔΔ.dat B 0
116

Fig.8

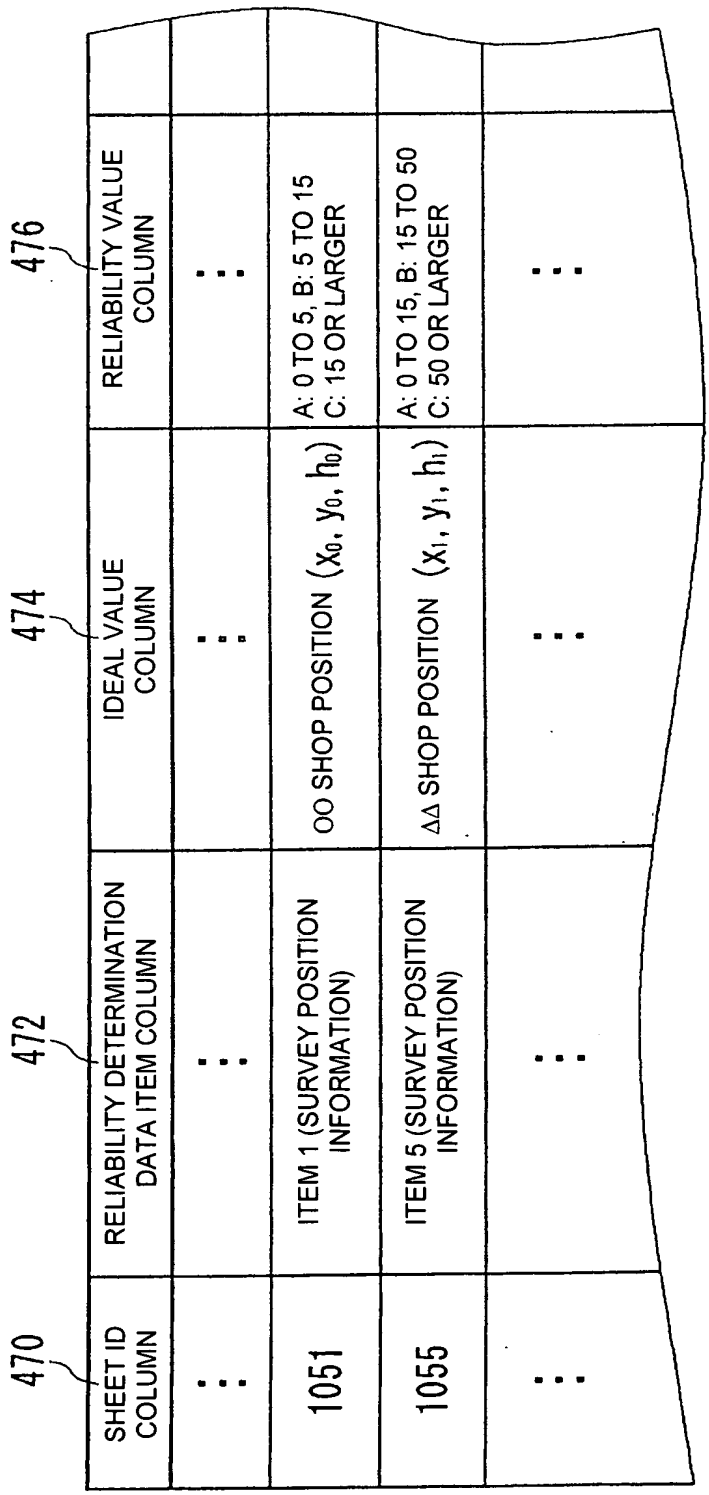

470
472
474
476
SHEET ID COLUMN
RELIABILITY DETERMINATION DATA ITEM COLUMN
IDEAL VALUE COLUMN
RELIABILITY VALUE COLUMN
1051
ITEM 1 (SURVEY POSITION INFORMATION)
OO SHOP POSITION (x_0, y_0, h_0)
A: 0 TO 5, B: 5 TO 15
C: 15 OR LARGER
1055
ITEM 5 (SURVEY POSITION INFORMATION)
ΔΔ SHOP POSITION (x_1, y_1, h_1)
A: 0 TO 15, B: 15 TO 50
C: 50 OR LARGER
126

Fig.9

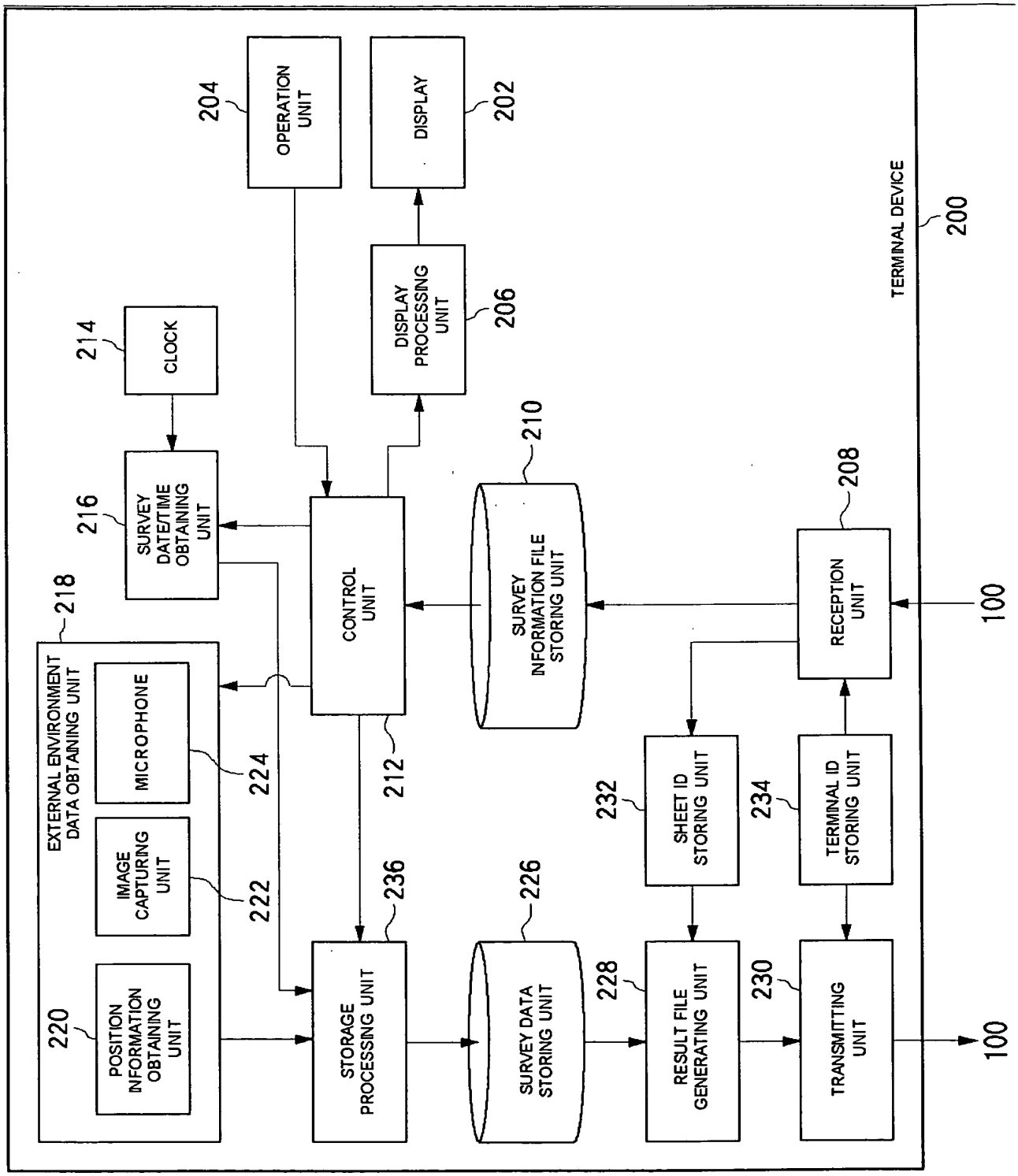
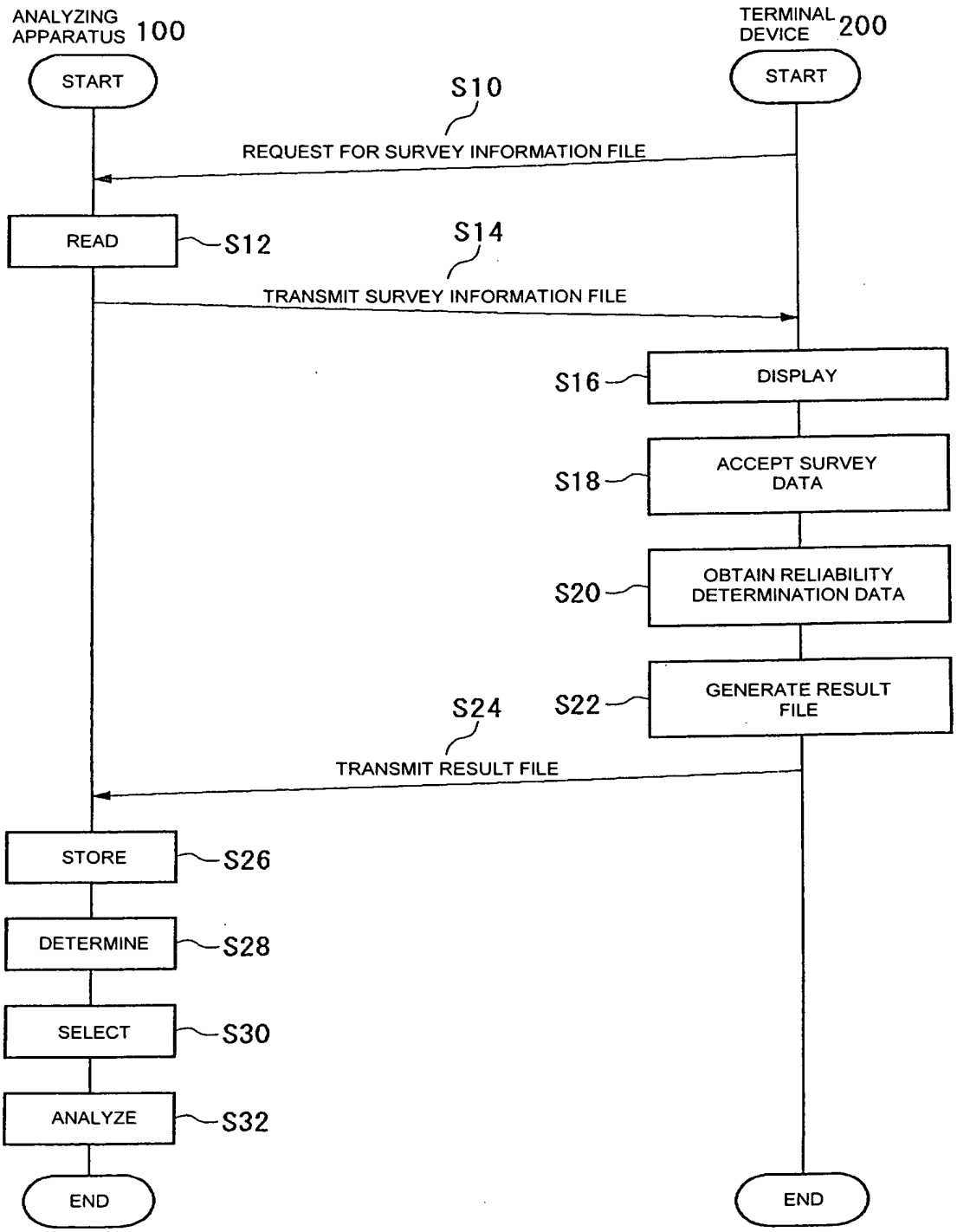

TERMINAL DEVICE
200
OPERATION UNIT
204
DISPLAY
202
DISPLAY PROCESSING UNIT
206
CLOCK
214
SURVEY DATE/TIME OBTAINING UNIT
216
CONTROL UNIT
210
SURVEY INFORMATION FILE STORING UNIT
208
RECEPTION UNIT
100
EXTERNAL ENVIRONMENT DATA OBTAINING UNIT
218
MICROPHONE
224
IMAGE CAPTURING UNIT
222
POSITION INFORMATION OBTAINING UNIT
220
212
SHEET ID STORING UNIT
232
TERMINAL ID STORING UNIT
234
STORAGE PROCESSING UNIT
236
SURVEY DATA STORING UNIT
226
RESULT FILE GENERATING UNIT
228
TRANSMITTING UNIT
230
100

Fig.10


ANALYZING APPARATUS 100
TERMINAL DEVICE 200
START
START
S10
REQUEST FOR SURVEY INFORMATION FILE
READ
S12
S14
TRANSMIT SURVEY INFORMATION FILE
S16
DISPLAY
S18
ACCEPT SURVEY DATA
S20
OBTAIN RELIABILITY DETERMINATION DATA
S22
GENERATE RESULT FILE
S24
TRANSMIT RESULT FILE
STORE
S26
DETERMINE
S28
SELECT
S30
ANALYZE
S32
END
END

10/539302

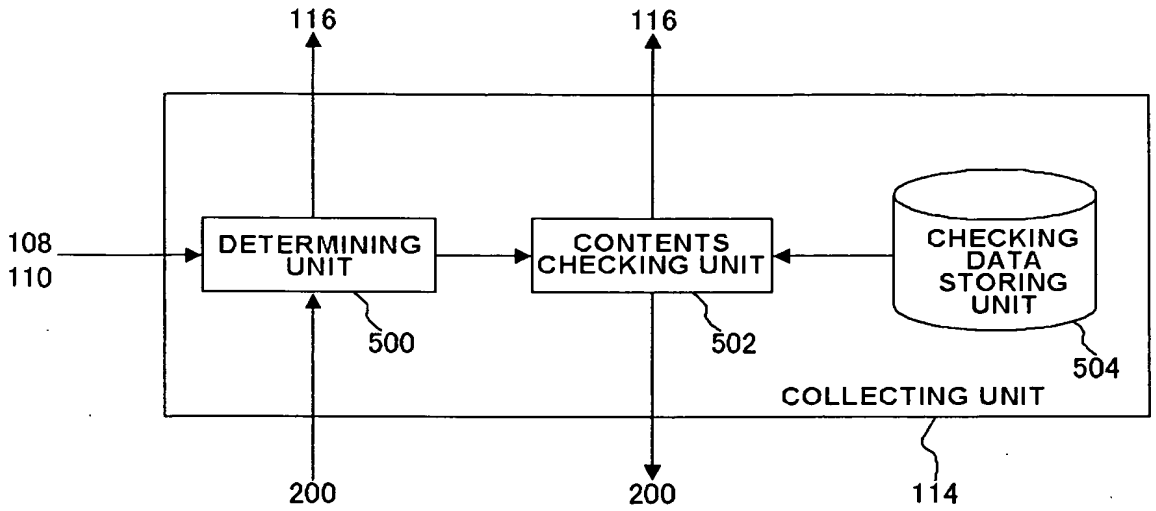



Fig.11